CAMERA SYSTEMS_

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# EXO™ Fixed Series

## High Definition Camera Systems For Harsh Environments

The EXO Fixed vandal resistant and pressurized High Definition (HD) Network Camera System is the surveillance professional's choice for capturing high definition video. The vandal resistant model is great for urban areas, prisons, and other high risk applications. The pressurized model is prefect for marine, coastal areas, traffic monitoring, and other areas of high contamination. Pressurized models include a schraeder valve to fill the camera with nitrogen or another clean stable gas, and a 5-7 psi pressure relief valve so that the unit cannot be over pressurized. This product is built with hardened components to withstand extreme temperature ranges, power surges and heavy impacts.

EXO's 3 year warranty includes protection against surges. * The EXO systems use a layered approach in surge protection. Because of this design, third party surge protection is not needed.

** Warranty does not include direct lightning strikes.*

### Available Features

- HD 720P models 0.25lx min. illumination (B&W)
- 12x optical zoom with auto focus
- Easy camera setup, no mechanical focus or focal length adjustment needed
- Day / Night with auto IR-cut filter, Wide Dynamic Range
- ONVIF, PSIA (Milestone, ONSSI), and GENETEC API, supported
- H.264 High Profile, MJPEG compression
- Optional IK10 Vandal Resistant model
- Optional pressurized models for the harshest environments
- Temperature range: -58°F to 140°F (-50°C TO 60°C), up to 165°F (74°C), Per NEMA TS2
- Proprietary surge protection (Ethernet & power), with warranty
- Meets NEMA 4 and NEMA TS2 standards (most models)
- Multiple mounting options
- PoE IEEE802.3at or 24vac power
- Video motion detection

MADE IN USA

EXO SERIES

# EXO™ Fixed Series

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## Models:

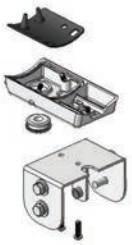
**EXVF5C-1**
12x optical zoom, Vandal resistant with wall / pole mount

**EXPF5C2-1**
12x optical zoom, Pressurized with wall / pole mount

## Optional Accessories:

**CM900**
Aluminum ceiling mount bracket

**MA-900**
Aluminum mast arm mounting bracket



**FMPFH2**
Flat mounting plate

**FMPFH1**
"U" bracket

*The **above** are compatible with **3rd Party** 109mm "U" Brackets*

| Camera Specifications | |
|---|---|
| 12x | |
| Image Sensor: | 1/4-type Exmor CMOS |
| Lens / Digital Zoom: | 12x Optical Zoom, f=3.7mm (wide) to 44.4mm (tele), F1.6 to F2.5; 12x (144x with optical zoom) |
| Minimum Illumination: | Color: 1.0Lux (F1.6 50IRE); B&W: 0.25Lux (F1.6 50IRE) |
| Shutter Speed: | Automatic or user selectable Automatic or user selectable |
| Selectable Shutter Speeds: | 1/1 to 1/10,000s, 22 steps |
| Horizontal Viewing Angle: | 55.9° (wide) to 2.9° (tele end) |
| Maximum Lens Aperture: | Minimum of f/1.6 (wide) to f/3.5 (tele) |

| Video Specifications | |
|---|---|
| Video Compression: | H.264 High, Main and Baseline profiles Motion JPEG |
| Resolutions: | H.264: 1280x720, 640x360, H.264 or Motion JPEG: 640x360, 4CIF, VGA, 2CIF, CIF |
| Frame Rate: | Up to HD 720p @ 60fps |
| Video Streaming: | User selectable (1) H.264 and (1) H.264 or MJPEG |
| Image Settings: | Wide dynamic range (WDR), manual shutter time, compression, color, brightness, sharpness, white balance, exposure control, exposure zones, backlight compensation, fine tuning of behavior at low light, rotation, text and image overlay, privacy masks, image freeze on PTZ |
| Data Rate: | Variable Bit Rate, Motion adaptive variable bit rate and Constant Bit Rate modes. 64 kbps – 6 Mbps per channel (requires less than 1 Mbps @ 4CIF/30fps) |

| Electrical Specifications | |
|---|---|
| Alarm Inputs / Output: | 2 / 1; Two (2) digital input pins |
| Power Input / Input Voltage: | PoE Plus IEEE802.3at or 24Vac, 35W |
| Surge Protection: | Proprietary two (2) stage surge protection (3 year warranty) |
| Audio Streaming: | Two-way: Uncompressed PCM High-fidelity AAC-LC G.71 |
| Audio Input / Output: | Single analog audio input; Single analog audio output (External Microphone and Speaker required) |
| Connectors: | RJ45 for 10BASE-T/100BASE-TX, Pheonix style connectors for AC/DC power, 4 configurable alarm inputs / outputs, mic in, line mono input, line mono output to active speaker |

| System Integration Specifications | |
|---|---|
| Application Programming Interface: | GENETEC API, PSIA (Milestone, ONSSI), ONVIF |
| Event Triggers: | Video motion detection, temperature, memory card full |
| Event Actions: | Video recording to edge storage |

| Protocols Specifications | |
|---|---|
| Networking: | IPv4/v6, UDP, TCP, IGMP, ICMP, ARP, DHCP, DNS |
| Streaming: | RTP, HTTP |
| Management: | RTSP, HTTP, HTTPS, Bonjour, NTP, Telnet, SNMP |
| Security: | Password protection, HTTPS encryption, digest authentication, user access log |
| System Administration: | Web GUI interface (HTTP or HTTPS) |
| Access Control: | SSL, Basic and Digest Authentication |
| Audio / Video Buffering: | Recorded ASF files to micro-SD medium |
| Long Term System Configuration Memory: | System configuration stored on internal flash |
| Software Update: | Fault-tolerant, remote accessible |
| Alarm Events: | Triggered by external input or internal event monitoring |
| Network: | Standard 10/100 Base-T Ethernet port |
| Edge Recording: | One (1) micro-SD / SDHC / SDXC interface (2-32GB Sold Seperatly, class 6 or above micro SD card) |

| Environmental Specifications | |
|---|---|
| Humidity: | 0-100% N.C per MIL-E-5400T, paragraphs 3.2.24.4 |
| Impact Rating: | IK-10 |
| Ingress Protection Rating: | IP67 |
| Maximum Windload: | 150mph (240kph) |
| Operating Temperature: | -58°F to 140°F (-50°C to 60°C), up to 165°F (74°C) for short periods of time Per NEMA TS2 |
| Vibration: | Conforms to NEMA TS2, para 2.1.9 |

| General Specifications | |
|---|---|
| Housing: | Aluminum and Stainless steel hardware |
| Window: | Vandal: Polycarbonate, Pressurized: Glass |
| Mounting Style: | Includes: Wall / Pole, Optional: Mast Arm or Flat Plate |
| Schraeder Valve (Pressurized): | Nitrogen input |
| Pressure Relief Valve (Pressurized): | 5-7 psi |
| Net Weight: | 10 lb (4.5 Kg) |
| Dimensions: | 8.25" x 11.75" x 19.5" (209 x 298 x 495mm) |
| Warranty: | 3 years, including surge protection |

## Regulatory and Certifications

ONVIF — CE PENDING — REACH

NEMA Rating — RoHS — UL Listed — WEEE

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**Sensor and Surveillance Systems**

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